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NOTICE OF ALLOWANCE AND FEE(S) DUE

1933 7590

02/12/2010

FRISHAUF, HOLTZ, GOODMAN & CHICK, PC

220 Fifth Avenue 16TH Floor

NEW YORK, NY 10001-7708

EXAMINER KERNS, KEVIN P

PAPER NUMBER ARTHNIT

1703 DATE MAILED: 02/12/2010

APPLICATION NO. 10/579,943

05/22/2006

FILING DATE

FIRST NAMED INVENTOR Yukinori Iizuka

ATTORNEY DOCKET NO. 06334/HG

CONFIRMATION NO. 9209

TITLE OF INVENTION: METHOD AND APPARATUS FOR DETECTING CRATER END OF CONTINUOUSLY CAST PRODUCT, AND METHOD FOR PRODUCING CONTINUOUSLY CAST PRODUCT

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 05/12/2010 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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| appropriate. All further indicated unless correcte maintenance fee notifical | correspondence includir ed below or directed oth | or transmitting the 1880 og the Patent, advance of terwise in Block 1, by (a | rders and notification of r a) specifying a new corres | naintenance fees wi pondence address; | ill be and/or | mailed to the current (b) indicating a sepa | correspo trate "FF | ondence address as EE ADDRESS" for | |
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| 220 Fifth Avenu 16TH Floor | e | ⁷²⁰¹⁰ AN & CHICK, PC | | Cont | ificate | of Mailing or Trans s) Transmittal is being ficient postage for fire ISSUE FEE address I) 273-2885, on the d | mission | | |
| NEW YORK, N | 1 10001-7708 | | | | | | | (Depositor's name) | |
| | | | _ | | | | | (Signature) | |
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| APPLICATION NO. | FILING DATE | | FIRST NAMED INVENTOR | | ATTORNEY DOCKET NO. | | CONF | CONFIRMATION NO. | |
| 10/579,943 TITLE OF INVENTION FOR PRODUCING CON | | | Yukinori Iizuka TING CRATER END OF | CONTINUOUSLY | CAS | 06334/HG F PRODUCT, AND 1 | <i>I</i> ETHOI | 9209 D | |
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| nonprovisional | NO | \$1510 | \$300 | \$0 | | \$1810 | | 05/12/2010 | |
| EXAM | INER | ART UNIT | CLASS-SUBCLASS |] | | | | | |
| KERNS, I | KEVIN P | 1793 | 164-451000 | • | | | | | |
| "Fee Address" ind. PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A | ondence address (or Cha 3/122) attached. ication (or "Fee Address 2 or more recent) attach ND RESIDENCE DATA ess an assignee is ident h in 37 CFR 3.11. Comp | nge of Correspondence Indication form ed. Use of a Customer | 2. For printing on the p (1) the names of up to or agents OR, alternati (2) the name of a singl registered attorney or a 2 registered patent atto listed, no name will be ITHE PATENT (print or typ data will appear on the p T a substitute for filing an (B) RESIDENCE: (CITY | 3 registered patent vely, e firm (having as a agent) and the name rneys or agents. If n printed. | members of use name | er a 2p to be is 3 | | has been filed for | |
| Please check the appropr | iate assignee category or | categories (will not be pr | inted on the patent): | Individual 🚨 Cor | rporati | on or other private gro | oup entit | y Government | |
| 4a. The following fee(s): Issue Fee Publication Fee (N | o small entity discount p | | o. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo | d. Form PTO-2038 | is atta | ched. | | | |
| | s SMALL ENTITY state | s. See 37 CFR 1.27. | ☐ b. Applicant is no lon | | | | | | |
| NOTE: The Issue Fee and interest as shown by the | d Publication Fee (if req records of the United Sta | ired) will not be accepted tes Patent and Trademark | d from anyone other than t Office. | he applicant; a regis | tered : | attorney or agent; or th | e assign | ee or other party in | |
| Authorized Signature | | | | Date | | | | | |
| Typed or printed name | | | | Registration No | o | | | | |
| This collection of inform an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223 | ation is required by 37 C tiality is governed by 35 I application form to the ons for reducing this but irginia 22313-1450. DC 13-1450. | FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the ONOT SEND FEES OR (| on is required to obtain or r 1.14. This collection is est depending upon the indiv e Chief Information Office COMPLETED FORMS TO | etain a benefit by th imated to take 12 m idual case. Any cor er, U.S. Patent and 1 D THIS ADDRESS. | ne publ ninutes nment Fraden SENI | ic which is to file (and to complete, includir s on the amount of ti- nark Office, U.S. Dep D TO: Commissioner | by the Ug gather g gather ne you re artment of for Pater | JSPTO to process) ing, preparing, and equire to complete of Commerce, P.O. its, P.O. Box 1450, | |

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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. CONFIRMATION | | | |
|---------------------------------------|-----------------|----------------------|----------------------------------|--------------|--|--|
| 10/579,943 | 05/22/2006 | Yukinori lizuka | 06334/HG 9209 | | | |
| 1933 | 7590 02/12/2010 | EXAMINER | | | | |
| FRISHAUF, HO | OLTZ, GOODMAN & | KERNS, KEVIN P | | | | |
| 220 Fifth Avenue | | | ART UNIT | PAPER NUMBER | | |
| 16TH Floor NEW YORK, NY 10001-7708 | | | 1793 DATE MAILED: 02/12/201 | 0 | | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 543 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 543 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/579 943 IIZUKA ET AL. Notice of Allowability Examiner Art Unit Kevin P Kerns 1793 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 25 January 2010. The allowed claim(s) is/are 1-3,7,10-13,17,18 and 22-24. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) 🔯 All b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. \(\overline{\text{ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. T Examiner's Amendment/Comment Paper No./Mail Date 1/25/10 4. T Examiner's Comment Regarding Requirement for Deposit 8. T Examiner's Statement of Reasons for Allowance of Biological Material □ Other . /Kevin P. Kerns/

Primary Examiner, Art Unit 1793

DETAILED ACTION

Information Disclosure Statement

The information disclosure statement (IDS) submitted on January 25, 2010 (with the request for continued examination) was filed after the mailing date of the Notice of Allowance on December 1, 2009. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claims 1-3, 7, 10-13, 17, 18, and 22-24 remain allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin P. Kerns whose telephone number is (571)272-1178. The examiner can normally be reached on Monday-Friday from 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jessica Ward can be reached on (571) 272-1223. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1793

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kevin P. Kerns Primary Examiner Art Unit 1793

/Kevin P. Kerns/ Primary Examiner, Art Unit 1793 February 4, 2010